Big Ideas for Volcano Quiz

1. Types of volcanoes. Know their shapes. Be able to relate the three types of volcanoes to the vanilla wafer, chocolate chip or Hershey Kiss
2. Know the three places where volcanoes are most likely to occur.

* Why do volcanoes form at convergent plate boundaries?
* Why do volcanoes form at divergent plate boundaries?

1. Hotspots

* Intraplate or boundary
* Better able to form in oceanic or continental lithosphere
* Relative age of volcanoes as you move away from hotspot

1. Lava formation

* What does addition of water to mantle rock do to the melting point of the rock?
* What does lowering the pressure on mantle rock to the melting point of the rock?

1. What three things do satellites detect to determine an eruption will happen soon?
2. Explosive volcanoes have magma that is :

* High or low viscosity
* High or low silica content

1. What does the style of volcanic eruption depend on primarily?
2. What is the history of each of the following types of volcanoes?

* Active
* Dormant
* Extinct

1. Where is the largest supervolcano in North America located?
2. What type of boundary is associated with the Ring of Fire?
3. What are the solid particles that are sent into the air during a volcanic eruption?
4. What is the hot ash, gas and rock that races down the side of a volcano during an eruption?
5. What are the landforms that can form from lava?

* Which one forms from lava that flows out but did not explode?
* Which one forms from large amounts of fluid lava over an extensive area?